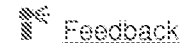



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### 1 [Dynamic scratchpad memory management for code in portable systems with an MMU](#)

Ads by



Bernhard Egger, Jaejin Lee, Heonshik Shin

February 2008 ACM Transactions on Embedded Computing Systems (TECS), Volume 7 Issue 2

Publisher: ACM

Full text available: pdf(1.43 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 67, Downloads (12 Months): 77, Citation Count: 0

In this work, we present a dynamic memory allocation technique for a novel, horizontally partitioned memory subsystem targeting contemporary embedded processors with a memory management unit (MMU). We propose to replace the on-chip instruction cache ...

Keyw ords: Code placement, compilers, heterogeneous memory, paging, portable systems, postpass optimization, scratchpad, victim cache, virtual memory

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### 2 [Not quite the average: An empirical study of Web use](#)



Harald Weinreich, Hartmut Obendorf, Eelco Herder, Matthias Mayer

February 2008 ACM Transactions on the Web (TWEB), Volume 2 Issue 1

Publisher: ACM

Full text available: pdf(967.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 136, Downloads (12 Months): 136, Citation Count: 0

In the past decade, the World Wide Web has been subject to dramatic changes. Web sites have evolved from static information resources to dynamic and interactive applications that are used for a broad scope of activities on a daily basis. To examine the ...

Keyw ords: Navigation, WWW, Web, browser interfaces, hypertext, usability, user study, web browsing, web design

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### 3 [Adaptive incremental checkpointing for massively parallel systems](#)



Saurabh Agarwal, Rahul Garg, Meeta S. Gupta, Jose E. Moreira

June 2004 ICS '04: Proceedings of the 18th annual international conference on Supercomputing

Publisher: ACM

Full text available: pdf(225.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 95, Citation Count: 4

Given the scale of massively parallel systems, occurrence of faults is no longer an exception but a regular event. Periodic checkpointing is becoming increasingly important in these systems. However, huge memory footprints of parallel applications place ...

Keyw ords: fault-tolerance, incremental checkpoint, large scale systems, probabilistic checkpoint

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dema  
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#### 4 [On incremental file system development](#)

 Erez Zadok, Rakesh Iyer, Nikolai Joukov, Gopalan Sivathanu, Charles P. Wright

May 2006 ACM Transactions on Storage (TOS), Volume 2 Issue 2

Publisher: ACM

Full text available:  [pdf\(260.40 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 221, Citation Count: 3

Developing file systems from scratch is difficult and error prone. Using layered, or stackable, file systems is a powerful technique to incrementally extend the functionality of existing file systems on commodity OSes at runtime. In this article, we ...


Keywords: I/O manager, IRP, Layered file systems, VFS, extensibility, stackable file systems, vnode

#### 5 [Realistic books: a bizarre homage to an obsolete medium?](#)

 Yi-Chun Chu, David Bainbridge, Matt Jones, Ian H. Witten

June 2004 JCDL '04: Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM

Full text available:  [pdf\(2.24 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 88, Citation Count: 7

For many readers, handling a physical book is an enjoyably exquisite part of the information seeking process. Many physical characteristics of a book-its size, heft, the patina of use on its pages and so on-communicate ambient qualities of the document ...

Keywords: 3D book visualisation, Java and OpenGL, visual metadata

#### 6 [Off the beaten tracks: exploring three aspects of web navigation](#)

 Harald Weinreich, Hartmut Obendorf, Eelco Herder, Matthias Mayer

May 2006 WWW '06: Proceedings of the 15th international conference on World Wide Web

Publisher: ACM

Full text available:  [pdf\(440.42 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 270, Citation Count: 6

This paper presents results of a long-term client-side Web usage study, updating previous studies that range in age from five to ten years. We focus on three aspects of Web navigation: changes in the distribution of navigation actions, speed of navigation ...

Keywords: browser interfaces, clickstream study, hypertext, navigation, user modeling

#### 7 [Semantics of static pointcuts in aspectJ](#)

 Pavel Avgustinov, Einar Hajiyev, Neil Ongkingco, Oege de Moor, Damien Sereni, Julian Tibble, Mathieu Verbaere

January 2007 ACM SIGPLAN Notices, Volume 42 Issue 1

Publisher: ACM

Full text available:  [pdf\(678.34 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 118, Citation Count: 1

In aspect-oriented programming, one can intercept events by writing patterns called *pointcuts*. The pointcut language of the most popular aspect-oriented programming language, AspectJ, allows the expression of highly complex properties of the static ...

Keywords: aspect-oriented programming, datalog, logic programming, pointcuts, term rewriting

#### 8 [Semantics of static pointcuts in aspectJ](#)

 Pavel Avgustinov, Einar Hajiyev, Neil Ongkingco, Oege de Moor, Damien Sereni, Julian Tibble, Mathieu Verbaere

January 2007 POPL '07: Proceedings of the 34th annual ACM SIGPLAN-SIGACT symposium on Principles

of programming languages

Publisher: ACM

Full text available:  pdf(678.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 118, Citation Count: 1

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Keyw ords: aspect-oriented programming, datalog, logic programming, pointcuts, term rewriting



## 9 [On-the-fly web content integrity check boosts users' confidence](#)



Soroush Sedaghat, Josef Pieprzyk, Ehsan Vossough

November 2002 Communications of the ACM, Volume 45 Issue 11

Publisher: ACM

Full text available:  pdf(182.67 KB)  html(25.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 66, Citation Count: 1

Malicious attacks on Web servers by intruders and hackers are prime concerns of organizations, administrators of Web sites, as well as users who access them.

## 10 [An analytical model for software-only main memory compression](#)



Irina Chihaiia, Thomas Gross

June 2004 WMPI '04: Proceedings of the 3rd workshop on Memory performance issues: in conjunction with the 31st international symposium on computer architecture

Publisher: ACM

Full text available:  pdf(261.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 23, Citation Count: 0

Many applications with large data spaces that cannot run on a typical workstation (due to page faults) call for techniques to expand the effective memory size. One such technique is memory compression. Understanding what applications under what conditions ...

## 11 [Effective memory protection using dynamic tainting](#)



James Clause, Ioannis Doudalis, Alessandro Orso, Milos Prvulovic

November 2007 ASE '07: Proceedings of the twenty-second IEEE/ACM international conference on Automated software engineering

Publisher: ACM

Full text available:  pdf(179.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 56, Citation Count: 0

Programs written in languages that provide direct access to memory through pointers often contain memory-related faults, which may cause non-deterministic failures and even security vulnerabilities. In this paper, we present a new technique based on dynamic ...

Keyw ords: dynamic tainting, hardware support, illegal memory accesses


## 12 [PlayAnywhere: a compact interactive tabletop projection-vision system](#)



Andrew D. Wilson

October 2005 UI ST '05: Proceedings of the 18th annual ACM symposium on User interface software and technology

Publisher: ACM

Full text available:  pdf(1.72 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 193, Citation Count: 6

We introduce PlayAnywhere, a front-projected computer vision-based interactive table system which uses a new commercially available projection technology to obtain a compact, self-contained form factor. PlayAnywhere's configuration addresses installation, ...

13 [Geometric model reconstruction from streams of DirectX 3D game application](#)



Zhigeng Pan, Xiaochao Wei, Jian Yang

June 2005 ACE '05: Proceedings of the 2005 ACM SIGCHI International Conference on Advances in computer entertainment technology

Publisher: ACM

Full text available: pdf(164.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 85, Citation Count: 0

This paper presents a method of intercepting data stream, command stream and rendering states from DirectX 9 graphics pipeline by hooking the low-level graphics library. It also shows that it is useful to reconstruct geometric models or render models ...

Keywords: DirectX 9, geometric model, graphics pipeline, reconstruction

14 [HijackGL: reconstructing from streams for stylized rendering](#)



Alex Mohr, Michael Gleicher

June 2002 NPAR '02: Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering

Publisher: ACM

Full text available: pdf(1.66 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 54, Citation Count: 2

This work shows that intercepting a low-level graphics library command stream and reconstructing a declarative representation is practical and useful, especially for exploring new rendering styles. We show not only how the basic mechanics of intercepting ...

Keywords: 3D, interactive, non-invasive, non-photorealistic, real-time, stylized

15 [Overcoming barriers to restructuring in a modular visualisation environment](#)



Olav Beckmann, Anthony J. Field, Gerard Gorman, Andrew Huff, Marc Hull, Paul H. J. Kelly

October 2004 LCR '04: Proceedings of the 7th workshop on Workshop on languages, compilers, and run-time support for scalable systems

Publisher: ACM

Full text available: pdf(423.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 25, Citation Count: 0

This paper explores the potential for automatic cross-component optimisation in the Python / VTK-based MayaVi modular visualisation environment. The idea is to delay execution of the VTK components called from the MayaVi tool, which requires no significant ...

16 [Switchblade: enforcing dynamic personalized system call models](#)



Christof Fetzer, Martin Süßkraut

April 2008 Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008

Publisher: ACM

Full text available: pdf(760.92 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

System call interposition is a common approach to restrict the power of applications and to detect code injections. It enforces a model that describes what system calls and/or what sequences thereof are permitted. However, there exist various issues ...

Keywords: security, system call interposition, system call models, taint analysis

17 [Switchblade: enforcing dynamic personalized system call models](#)

 Christof Fetzner, Martin Süßkraut  
April 2008 ACM SIGOPS Operating Systems Review, Volume 42 Issue 4  
Publisher: ACM

Full text available:  pdf(760.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

System call interposition is a common approach to restrict the power of applications and to detect code injections. It enforces a model that describes what system calls and/or what sequences thereof are permitted. However, there exist various issues ...

Keywords: security, system call interposition, system call models, taint analysis

18 [SecVisor: a tiny hypervisor to provide lifetime kernel code integrity for commodity OSes](#)

 Arvind Seshadri, Mark Luk, Ning Qu, Adrian Perrig  
October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles  
Publisher: ACM


Full text available:  pdf(264.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 218, Citation Count: 0

We propose SecVisor, a tiny hypervisor that ensures code integrity for commodity OS kernels. In particular, SecVisor ensures that only user-approved code can execute in kernel mode over the entire system lifetime. This protects the kernel against code ...

Keywords: code attestation, code injection attacks, code integrity, hypervisor, memory virtualization, preventing

19 [SecVisor: a tiny hypervisor to provide lifetime kernel code integrity for commodity OSes](#)

 Arvind Seshadri, Mark Luk, Ning Qu, Adrian Perrig  
October 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 6  
Publisher: ACM


Full text available:  pdf(264.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 218, Citation Count: 0

We propose SecVisor, a tiny hypervisor that ensures code integrity for commodity OS kernels. In particular, SecVisor ensures that only user-approved code can execute in kernel mode over the entire system lifetime. This protects the kernel against code ...

Keywords: code attestation, code injection attacks, code integrity, hypervisor, memory virtualization, preventing

20 [Using hypervisor to provide data secrecy for user applications on a per-page basis](#)

 Jisoo Yang, Kang G. Shin  
March 2008 VEE '08: Proceedings of the fourth ACM SIGPLAN/SIGOPS international conference on Virtual execution environments  
Publisher: ACM

Full text available:  pdf(342.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 84, Citation Count: 0

Hypervisors are increasingly utilized in modern computer systems, ranging from PCs to web servers and data centers. Aside from server applications, hypervisors are also becoming a popular target for implementing many security systems, since they provide ...

Keyw ords: application protection, data privacy, hypervisor, virtualization

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